



NILES®



INSTALLATION GUIDE



FOR CONNECTING UP TO 10 PAIRS OF SPEAKERS
SPEAKER SELECTION SYSTEM

MSA-10A

CONGRATULATIONS!

Thank you for choosing the **MSA-10A Speaker Selector with Autoformer Impedance Matching System** from Niles. With proper installation and operation, you should enjoy years of trouble-free use.

Niles manufactures the industry's most complete line of custom installation components and accessories for audio/video systems. To see the complete Niles product assortment, visit us on the Internet at: www.nilesaudio.com.

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INTRODUCTION

The MSA-10A allows you to connect up to ten pairs of speakers to your stereo receiver or amplifier and play any or all pairs simultaneously. You don't have to worry about overloading your amplifier. The MSA-10A uses a special autoformer matching system that keeps your amplifier running safely – even if you have all ten pairs of speakers playing at the same time. The autoformers maintain a nominal 8 ohm load on the amplifier, making it safe for use with most quality amplifiers. Each of the ten speaker pairs can have a nominal impedance of anywhere between 4 and 16 ohms. Isolated left and right channel ground returns make the MSA-10A compatible with all types of amplifiers including those with “isolated” or “floating” output grounds. The removable rear panel connector blocks accept speaker wire up to 14 gauge in size.

NOTE: THE MSA-10A IS DESIGNED FOR USE WITH A RECEIVER OR AMPLIFIER HAVING A MAXIMUM POWER OUTPUT OF 200 WATTS PER CHANNEL (RMS). DAMAGE CAUSED BY THE USE OF A HIGHER POWER RECEIVER OR AMPLIFIER WILL VOID THE WARRANTY.

FEATURES

- *Power handling: 200 watts per channel RMS*
- *Accommodates 10 pairs of speakers*
- *Premium autoformers ensure efficient impedance matching, low power loss, and no heat generation*
- *Automatic Impedance Protection*
- *Removable Speaker output terminals accommodate up to 14-gauge wire*
- *Removable Amplifier input terminals accommodate up to 14-gauge wire*
- *72 adhesive-backed room identification labels*
- *Includes 16Volt AC Power Supply*
- *Two-year limited warranty*

INSTALLATION

CONNECTIONS

NOTE: WHEN CONNECTING THE MSA-10A TO RECEIVERS OR AMPLIFIERS WITH “A” AND “B” SPEAKER SELECTION, CONNECT THE MSA-10A TO SPEAKER POSITION “A”. **DO NOT** CONNECT ANYTHING TO SPEAKER POSITION “B” TO PREVENT THE AMPLIFIER FROM DRIVING AN UNUSUALLY LOW IMPEDANCE LOAD.

NOTE TO OWNERS OF TUBE AMPLIFIERS: VIRTUALLY ALL TUBE AMPLIFIERS MUST HAVE A LOAD CONNECTED AT ALL TIMES. IF THE AMPLIFIER TO BE CONNECTED TO THE MSA-10A IS A TUBE AMPLIFIER, BE SURE TO ALWAYS HAVE AT LEAST ONE PAIR OF SPEAKERS SWITCHED ON AT ALL TIMES. AN ALTERNATIVE IS TO PERMANENTLY CONNECT A 150 OHM, 5 WATT RESISTOR ACROSS THE TUBE AMPLIFIER’S OUTPUT IN PARALLEL WITH THE MSA-10A. SEE **FIGURE 2** FOR THE HOOKUP DIAGRAM.

Refer to **Figure 1** on the following page for hookup diagram. Use #20 through #14 gauge speaker wire for all connections.

The insulation on each wire should be stripped 1/4" – no more – the ends twisted tightly together, then inserted into the appropriate hole on each rear panel terminal block. Secure each wire by tightening the small set screws on the top of the terminal blocks. Be certain that proper “phasing” is observed: connect the positive (+) terminals on the MSA-10A to the positive terminals on the amplifier and speakers and negative (-) terminals on the MSA-10A to the negative terminals on the amplifier and speakers.

OPERATION

Operation is straightforward. Simply depress the button(s) corresponding to the speaker pair(s) you wish to play. To turn a pair off, simply press the button again.

SPECIFICATIONS

Audio Power Handling:	200 Watts per channel (RMS) 350 Watts per channel (peak music power)
AC Power Requirements:	120-volt to 16-volt AC transformer (supplied)
Overall Dimensions:	17-3/8" wide x 3-7/8" high x 7-5/8" deep
Weight:	15 lbs.

Figure 1

Example of using the MSA-10A to connect 10 pairs of speakers to a receiver or amplifier.

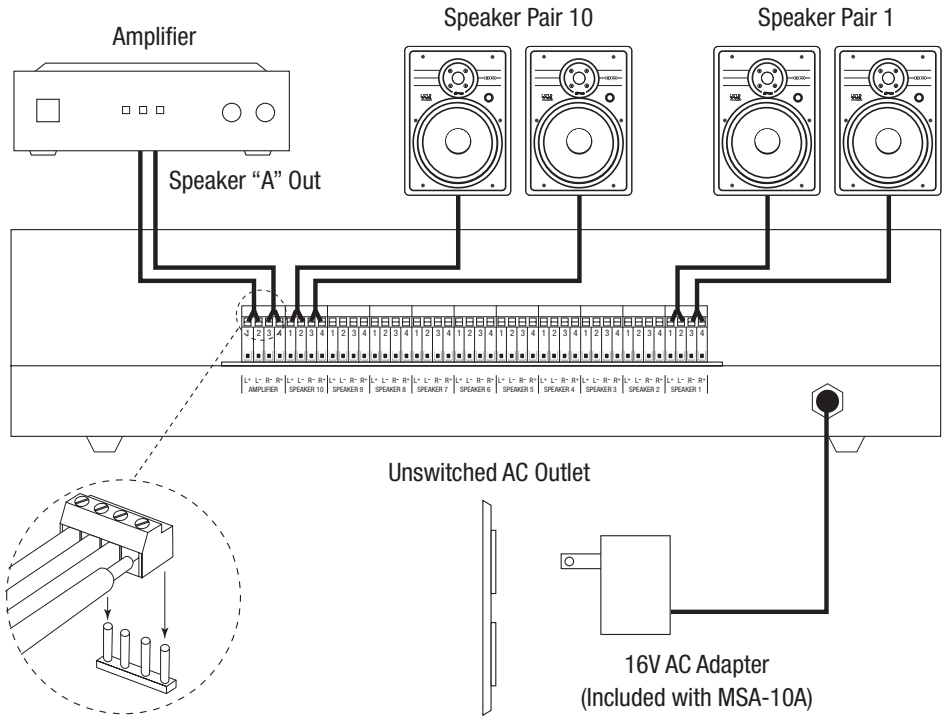
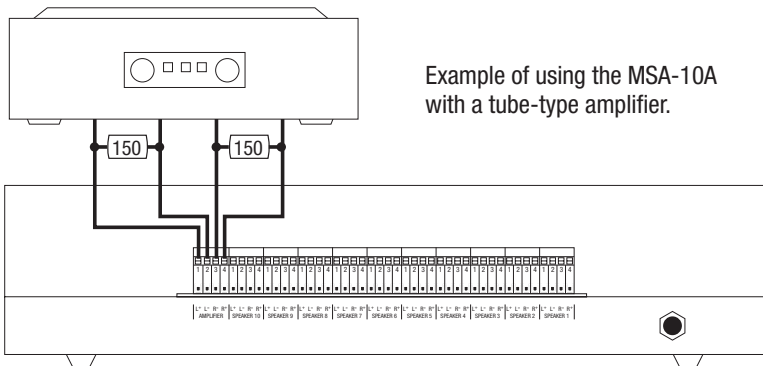


Figure 2

Example of using the MSA-10A with a tube-type amplifier.



LIMITED WARRANTY

NILES AUDIO CORPORATION ("NILES") WARRANTS ITS ACTIVE PRODUCTS (THOSE REQUIRING AC OR BATTERY POWER) TO THE ORIGINAL PURCHASER TO BE FREE OF MANUFACTURING DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF TWO YEARS FROM DATE OF PURCHASE.

THIS WARRANTY IS SUBJECT TO THE FOLLOWING ADDITIONAL CONDITIONS AND LIMITATIONS. THE WARRANTY IS VOID AND INAPPLICABLE IF NILES DEEMS THAT THE PRODUCT HAS BEEN USED OR HANDLED OTHER THAN IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BY THE MANUFACTURER, INCLUDING BUT NOT LIMITED TO DAMAGE CAUSED BY ACCIDENT, MISHANDLING, IMPROPER INSTALLATION, ABUSE, NEGLIGENCE, OR NORMAL WEAR AND TEAR, OR ANY DEFECT CAUSED BY REPAIR TO THE PRODUCT BY ANYONE OTHER THAN NILES OR AN AUTHORIZED NILES DEALER.

TO OBTAIN WARRANTY SERVICE, TAKE THE UNIT TO THE NEAREST AUTHORIZED NILES DEALER, WHO WILL TEST THE PRODUCT AND IF NECESSARY, FORWARD IT TO NILES FOR SERVICE. IF THERE ARE NO AUTHORIZED NILES DEALERS IN YOUR AREA, YOU MUST WRITE TO NILES AND INCLUDE YOUR NAME, MODEL AND SERIAL NUMBER OF YOUR UNIT, ALONG WITH A BRIEF DESCRIPTION OF THE PROBLEM. A FACTORY RETURN AUTHORIZATION NUMBER WILL BE SENT TO YOU. DO NOT RETURN ANY UNIT WITHOUT FIRST RECEIVING WRITTEN AUTHORIZATION AND SHIPPING INSTRUCTIONS FROM NILES.

IF THE ABOVE CONDITIONS ARE MET, THE PURCHASER'S SOLE REMEDY SHALL BE TO RETURN THE PRODUCT TO NILES, IN WHICH CASE NILES WILL REPAIR OR REPLACE, AT ITS SOLE OPTION, THE DEFECTIVE PRODUCT WITHOUT CHARGE FOR PARTS OR LABOR. NILES WILL RETURN A UNIT REPAIRED OR REPLACED UNDER WARRANTY BY SHIPPING SAME BY ITS USUAL SHIPPING METHOD FROM THE FACTORY (ONLY) AT ITS EXPENSE WITHIN THE UNITED STATES OF AMERICA. THERE ARE NO OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION, EITHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER/PURCHASER. NILES SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES EXCEPT TO THE EXTENT PROVIDED (OR PROHIBITED) BY APPLICABLE LAW.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

**FOR THE NAME OF YOUR NEAREST AUTHORIZED NILES DEALER CONTACT:
NILES AUDIO CORPORATION, P.O. BOX 160818, MIAMI, FLORIDA 33116-0818.**

Please fill in your product information and retain for your records.

Model _____ Serial No. _____ Purchase Date _____

WARRANTY REGISTRATION CARD

Model Purchased _____

Serial Number _____

Date Purchased (month/day/year) _____

Dealer Name and Location _____

Dr. Miss Mr. Mrs. Ms.

Name _____

Address _____

City _____ State _____ Zip _____

Telephone () _____

Please take a moment to fill out our warranty registration card. The information helps us to get to know you better and develop the products you want

Age:

- Under 25
- 25-34
- 35-44
- 45-54
- 55 & over

Income:

- Under \$24,999
- \$25,000-\$44,999
- \$45,000-\$74,999
- \$75,000-\$99,999
- \$99,999-\$129,999
- Over \$130,000

Occupation:

- Arts/Entertainment
- Business Owner
- Engineer
- Finance/Accounting
- General Office
- Management
- Professional
- Sales/Marketing
- Student
- Tradesperson

Musical tastes:

(Please check all that apply)

- Alternative
- Classical
- Country
- Jazz
- New Age
- Popular
- R&B
- Rock
- Other _____

How did you hear about Niles?

- Architect/Developer
- Custom Installer
- Direct Mail
- Friend/Family
- In-Store Display
- Interior Designer
- Magazine Ad
- Mail-Order Catalog
- Newspaper Ad
- Product Brochure
- Product Review
- Retail Salesperson
- E-Tailer

What magazines do you read?

1. _____
2. _____
3. _____

Who will install the product?

- Custom Installer
- Electrician
- Friend
- Myself
- Builder

Which factor(s) influenced the purchase of your Niles product? (Please check all that apply)

- Ease of Use
- Price/Value
- Product Features
- Quality/Durability
- Reputation/Brand
- Style/Appearance
- Warranty

Do you . . . ?

- Own a House. If yes, how many square feet? _____

- Own a Town House/Condominium/Co-op
- Rent an Apartment
- Rent a House

Are you interested in receiving literature on other Niles products?
 Yes No

Are there products/capabilities that you would like to see introduced?

DETACH HERE AND RETURN TO: NILES AUDIO CORPORATION WARRANTY REGISTRATION DEPT. P.O. BOX 160818 MIAMI, FLORIDA 33116-0818



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